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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,973	06/25/2003	Glenn James Dria	9070MXL	3767

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EXAMINER

HENDRICKS, KEITH D

ART UNIT	PAPER NUMBER
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1761

DATE MAILED: 01/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/603,973

Applicant(s)

DRIA ET AL.

Examiner

Keith Hendricks

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 and 11-57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 11-57 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

Claims 11-13 are objected to because of the following informalities: they depend from now-cancelled claim 10. Thus, it is unclear as to what is attempted to be claimed. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 15-24, 33-39 and 50-57 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "reduced" in claims 15-24, 33-39 and 50-57 is a relative term which renders the claim indefinite. The term "reduced" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Applicant's arguments filed September 30, 2004, have been fully considered but they are not persuasive. At page 7 of the response, applicant states that "applicants respectfully assert that one skilled in the art would understand that the use of the term 'reduced' in the present claims describes the level of asparagine or acrylamide in treated coffee beans as compared to the level present in untreated beans." This is not deemed persuasive. The definition of the term is not in question, nor was it suggested that one skilled in the art would not understand the meaning of the term. However, as previously stated on the record, it is the use of the term in respect to the claimed invention, that raises the issue under 35 U.S.C. 112, second paragraph. Again, the term "reduced" indicates both a current condition and a previous condition, as well as a change from the previous to the current state. Therefore a product, as it stands in its current state, cannot simply be "reduced", without reference to a standard or to the previous condition. Applicants, in their attempt to demonstrate support for the claimed term, even rely upon this fact. The claimed invention must be clear, in and of itself, and in light of the specification. However, this is not the case as currently claimed. Further and again, it is noted that a roasted coffee bean cannot have

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a "reduced amount of acrylamide", if it never had a previous level of acrylamide, as is the case with coffee beans which have not yet been roasted. Therefore, a roasted coffee bean can never have a "reduced amount of acrylamide" as instantly claimed. It can only be compared to a different coffee bean which has not been treated in some fashion, for example, according to the method of the instant invention.

Examiner Notes:

(1) Regarding the issue concerning an "asparaginase reducing enzyme", this has been withdrawn in light of applicant's arguments. It is noted that applicant has referred to the definition provided at page 7 of the specification, which will be used from here forth.

(2) Regarding the term "low", as used in claims 51, 53, 55 and 57, this has been withdrawn in light of applicant's arguments. It is noted that applicants have stated at page 8 of the response, that "because the presently rejected claims relate only to the labeling of the product, rather than the coffee, it is irrelevant what the term 'low' actually means in these claims."

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

i) Claims 50-57 remain provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 13-14 of copending Application No. 10/603,978. Although the conflicting claims are not identical, they are not patentably distinct from each other because they each are directed to an article of commerce comprising (a) a food product with a reduced level of acrylamide; (b) a container for containing the product, and (c) a message associated with the container, wherein said message associated with the container informs the consumer that the product has a reduced level of acrylamide.

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ii) Claims 1-9 and 11-57 remain provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20, 22-31 and 45-50 of copending Application No. 10/606,137. Although the conflicting claims are not identical, they are not patentably distinct from each other because they each are directed to food products with reduced amounts of asparagine and/or acrylamide; methods of making said products, and articles of commerce comprising said products (for details, see the above rejection to copending application 10/603,978).

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Applicant's arguments filed September 30, 2004, have been fully considered but they are not persuasive. At page 8 of the response, applicant states that the copending claims fail to teach or suggest the instantly claimed invention. This is not deemed persuasive for the reasons of record. Applicant's copending claims are broadly recited to include several food items, methods and containers for such, wherein the food item possesses a "reduced level of acrylamide." This directly overlaps and renders obvious the instantly claimed invention, directed to a food item (coffee beans), methods and containers for such, wherein the food item possesses a "reduced level of acrylamide."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9 and 11-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elder et al. (Pub. No. US 2004/0058054). The reference and rejection are incorporated as cited in a previous Office action.

Applicant's arguments filed September 30, 2004, have been fully considered but they are not persuasive. Despite the fact that the reference discloses a method for reducing the amount of acrylamide in thermally processed foods, and despite the fact that the reference specifically states that roasted (i.e. thermally processed) coffee beans tested positive for acrylamide, and finally, despite the fact that the reference specifically states that "one such method for inactivating [asparagine] is to contact asparagine with the enzyme asparaginase", at page 11 of the response, applicant alleges that there is no suggestion or

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motivation in the reference for one of ordinary skill in the art to reduce the level of asparagine – and thus the level of acrylamide in roasted coffee beans – by adding asparaginase to coffee beans. This is simply not deemed persuasive, and appears to fly in the face of the teachings and spirit of the reference.

Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the reference.

At page 11 of the response, applicant states that “Elder generally discusses ‘inactivating asparagine’ in foods, yet fails to provide any practical teachings relating thereto, even though the claims are directed to food products. Moreover, there is no teaching or suggestion in either the examples, or the specification, of Elder of a method by which to reduce the level of asparagine or acrylamide in a food product (and particularly coffee beans).” This is not deemed persuasive for the reasons of record. Contrary to that which applicant alleges, it is unclear to the Office as to how one skilled in the art might read the reference as a whole, and *not* come away with the direct teaching that in order to inactivate asparagine within a food product, and thus provide a food product with less acrylamide formation than one which has not been treated, the food product may be treated with asparaginase. As previously stated on the record, and directly quoted from the reference, “one such method for inactivating is to contact asparagine with the enzyme asparaginase. This enzyme decomposes asparagine to aspartic acid and ammonia” (par. 0011). This reaction was performed in Example 5, where it is demonstrated that such treatment “with an enzyme that decomposes asparagine to aspartic acid and ammonia reduced acrylamide formation by more than 99.9%. *This experiment establishes that reducing the concentration of asparagine, or the reactive nature or [‘of’; sic] asparagine, will reduce acrylamide formation.*” Thus, this direct teaching, suggestion and actual example set forth in the reference, would clearly provide the necessary motivation, guidance and reasonable expectation of success to the ordinarily-skilled artisan in order to utilize the protocol with the specifically-recited food items, including coffee beans, absent any clear and/or convincing arguments to the contrary. In fact, it is unclear as to what different or contrary conclusions might be drawn from the teachings of the reference. Applicant has not sufficiently distinguished the claimed invention from the teachings of the reference.

Finally, at page 12 of the response, applicant states that “there is no teaching of all the claim limitations. Again, Elder fails to teach a method of reducing the level of asparagine/acrylamide in coffee or coffee beans.” This is not deemed persuasive for the reasons of record. It is noted that the test for obviousness is not whether the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the reference(s) would have suggested to

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those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

Applicant is correct in stating that the reference does not specifically teach, or provide an example of, reducing the level of asparagine/acrylamide in coffee or coffee beans. However, as stated above and previously on the record, the reference clearly and unambiguously suggests to one of ordinary skill in the art, the instantly-claimed method of utilizing an asparaginase enzyme for inactivating asparagine in coffee beans, thereby reducing the level of acrylamide which would be formed in the subsequently roasted coffee beans. The reference leaves no question as to whether this would prove successful with regard to the recited food products, as this is the primary purpose and goal of the reference.

Conclusion


Applicant's amendment (canceling claim 10) necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith Hendricks whose telephone number is (571) 272-1401. The examiner can normally be reached on M-F (8:30am-6pm); First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on (571) 272-1398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


KEITH HENDRICKS
PRIMARY EXAMINER